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Name: _____

Practice Problems

TRUTH TABLES PRACTICE

Period: _____ Date: _____

(1) $A \vee B$, $A \wedge B$, $\sim A$, and $\sim (A \wedge B)$

A	B	$A \vee B$	$A \wedge B$	$\sim A$	$\sim (A \wedge B)$
T	T				
T	F				
F	T				
F	F				

(2) $(A \wedge B) \vee C$

A	B	C	$A \wedge B$	$(A \wedge B) \vee C$
T	T	T		
T	T	F		
T	F	T		
T	F	F		
F	T	T		
F	T	F		
F	F	T		
F	F	F		

(3) $A \leftarrow (A \leftarrow B)$

A	B	$A \leftarrow B$	$B \leftarrow A$	$A \leftarrow (A \leftarrow B)$
T	T			
T	F			
F	T			
F	F			

(5) $(A \text{ XOR } B) \text{ XOR } C$

A	B	C	$A \text{ XOR } B$	$(A \text{ XOR } B) \text{ XOR } C$
T	T	T		
T	T	F		
T	F	T		
T	F	F		
F	T	T		
F	T	F		
F	F	T		
F	F	F		

(4) $B \wedge (A \leftrightarrow B)$

A	B	$A \leftrightarrow B$	$B \wedge (A \leftrightarrow B)$
T	T		
T	F		
F	T		
F	F		